

CLAIMS

1. A sheet of cellulose web, hereafter sheet of tissue paper, comprising at least one first embossed zone (A_1 , A_2) exhibiting protrusions on one side corresponding to alveoles (101', 102') on the other side, the alveoles having a substantially polygonal base, further comprising at least one unembossed zone (B), characterized in that

- the alveoles (101', 102') are configured along at least one array,

- the mutually facing sides of two adjacent alveoles subtend a bridge (P) having rectilinear or substantially rectilinear edges of length L greater than said bridge's maximum width D, one or several bridges connected to each other subtending a path between preferably two second unembossed zones (B) which are separated by at least one first embossed zone (A_1 , A_2).

2. Sheet of tissue paper as claimed in the above claims, characterized in that the ratio L/D is greater than 1, preferably greater than 1.5 and in particular greater than 3.

3. Sheet as claimed in one of the above claims, characterized in that the distance between two first adjacent zones (A_1 , A_2) that are separated by an unembossed zone (B), is between once and triple, preferably between once and twice the width of said first zones (A_1 , A_2).

4. Sheet of tissue paper as claimed in any of the above claims, characterized in that the base of said alveoles (101', 102') is triangular.

5. Sheet of tissue paper as claimed in one of the above claims, characterized in that the slope (α) of at least one of the alveole walls relative to the vertical to the plane of the sheet is between 20° and 45° .

6. Sheet of tissue paper as claimed in one of the above claims, characterized in that the area density of the alveoles is between 4 and 50 alveoles/cm² and preferably between 4 and 20 alveoles/cm².

7. Sheet of tissue paper as claimed in any of the above claims, characterized in that the linear alveole density is between 2 and 20 alveoles/cm.

8. Sheet of tissue paper as claimed in one of the above claims, characterized in that it is combined with a second sheet of tissue paper in order to constitute a double-thickness sheet.

9. Sheet of tissue paper as claimed in the above claim, characterized in that the second sheet was dried by air crossflow.

10. Sheet of tissue paper as claimed in any of the above claim, characterized in that said arrays are concentric.

11. A cylinder embossing a sheet as claimed in one of the above claims, characterized in that it comprises embossing tips (10) having a polygonal base which subtend arrays (A'_1 , A'_2) wherein two adjacent embossing tips (101, 102) are configured in such a way that two respective sides (101m, 102m) of the polygonal base of said two embossing tips

are situated mutually facing and are substantially mutually parallel.

12. Cylinder as claimed in the above claim, characterized in that the embossing tips (10) have a triangular base.

13. Cylinder as claimed in either of claims 11 and 12, characterized in that the angle (β) subtended between the two substantially mutually parallel sides (101m, 102m) of the embossing tips (101, 102) is between 0° and 35° .

14. Cylinder as claimed in one of claims 11 through 13, characterized in that each of the embossing-tip sides subtends an angle (α) between 20° and 45° with a plane perpendicular to cylinder generatrix defined at said side.

15. A method for manufacturing a sheet as claimed in any of claims 1 through 10, whereby the sheet is applied against an engraved embossing cylinder (1) characterized in that the cylinder (1) is defined in any of claims 11 through 14.